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Substitute for form 1449A/PTO				Complete If Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <small>(use as many sheets as necessary)</small>				Application Number	09/185,360 U.S. Patent No. 6,348,069 Issued February 19, 2002
Filing Date	November 3, 1998				
First Named Inventor	Joseph P. Vacanti				
Group Art Unit	3738				
Examiner Name	D. Isabella				
Sheet	1	of	27	Attorney Docket Number	MIT 6917 (CMCC 450) DIV

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	US Patent Document		Name of Patentee or Applicant of Cited Document	Date of Cited Document MM-DD-YYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code (if known)			
WJ	1,995,970			Dorough	03-26-1935	
	2,609,347			Wilson	09-02-1952	
	2,653,917			Hammon	09-29-1953	
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	2,664,386			Wilson	12-29-1953	
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	2,703,316			Schneider	03-01-1955	
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	3,514,791			Sparks	06-02-1970	
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	4,144,126	Burbidge		03-13-1979		
	4,186,448	Brekke		02-05-1980		
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First Named Inventor	Joseph P. Vacanti		
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Examiner Name	D. Isabella		
		Attorney Docket Number	MIT 6917 (CMCC 450) DIV
Sheet	4	of	27

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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U.S. PATENT DOCUMENTS						
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		Number	Kind Code (if known)			
(B)	4,713,070			Mano	12-15-1987	
	4,721,096			Naughton, et al.	01-26-1988	
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	4,946,938			Magill, et al.	08-07-1990	
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		Office. ³	Number ⁴				
	AU	24245/88	B		02-13-1989		
	DE	35 18 150			10-23-1986		
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	WO	89/00413			01-26-1989		
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	WO	90/12603			11-01-1990		
	WO	90/12604			11-01-1990		
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	WO	92/06702			04-30-1992		
	WO	92/07525			05-14-1992		

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Sheet 6 of 27		Attorney Docket Number	MIT 6917 (CMCC 450) DIV

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(9)	WO	93/07913			04-29-1993		
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(CA)	WO	93/16687			09-02-1993		
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OTHER ART - NON PATENT LITERATURE DOCUMENTS

Examiner's Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, cit and/or country where published	T ²
<i>10</i>		ALLCOCK, H. R., et al., "Synthesis of Poly[(Amino Acid Alkyl Ester)Phosphazenes]", <u>Macromolecules</u> , 10(4) (July/August, 1977).	
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		ALLCOCK, H. R., et al., "Amphilphilic Polyphosphazenes as Membrane Materials: Influence of Side Group on Radiation Cross Linking," <u>Biomaterials</u> 9(6):500-508 (Nov. 1988).	
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OTHER ART -- NON PATENT LITERATURE DOCUMENTS		
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		ALLCOCK & KWON, "An Ionically Cross-Linkable Polyphosphazene: Poly(bis(carboxylatophenoxy)phosphazene) and Its Hydrogels and Membranes," <u>Macromolecules</u> 22:75-79 (1989).
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		ATALA and CASALE, "Management of Primary Vesicoureteral Reflux," <u>Infections in Urology</u> pp 39-43 (March/April, 1990)
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		ATALA, et al., "Formation of Urothelial Structures in Vivo from Dissociated Cells Attached to Biodegradable Polymer Scaffolds in Vitro," <u>The Journal of Urology</u> 148:658-662 (August 1992).
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		ATALA, et al., "Injectable Alginate Seeded with Chondrocytes as a Potential Treatment for Vesicoureteral Reflux," <u>The Journal of Urology</u> 150:745-747 (August, 1993).
19		ATALA, et al., "Laparoscopic Correction of Vesicoureteral Reflux," <u>The Journal of Urology</u> 150:748-751 (August, 1993).

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				Group Art Unit	3738
				Examiner Name	D. Isabella
				Attorney Docket Number	MIT 6917 (CMCC 450) DIV

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(J)		ATALA, et al., "Sonography with Sonicated Albumin in the Detection of Vesicoureteral Reflux," <u>The Journal of Urology</u> 150:756-758 (August, 1993).	
		ATALA, "Endoscopic Treatment of Reflux with Autologous Bladder Muscle Cells," American Academy of Pediatrics Meeting held in Dallas, TX 10/23/94 (Abstract).	
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		BERRINO, et al. "Surgical Correction of Breast Deformities Following Long-Lasting Complications of Polyurethane-Covered Implants," <u>Ann. Plast. Surg.</u> , 24:481 (1990).	
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(a)		BISSELL, et al. "The Role of Extracellular Matrix in Normal Liver," <u>Scand. J. Gastroenterol.</u> , 23:107 (1988).	

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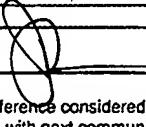


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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number 09/185,360 U.S. Patent No. 6,348,069 Issued February 19, 2002
Filing Date November 3, 1998				First Named Inventor Joseph P. Vacanti
Group Art Unit 3738				Examiner Name D. Isabella
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(P)		BISSELL, et al., "Interactions of Rat Hepatocytes with Type IV Collagen, Fibronectin and Laminin Matrices, Distinct Matrix-Controlled Modes of Attachment and Spreading," <u>European Journ. of Cell Biology</u> 40:72-78 (1986).	
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		BURKE, "The Effects of the Configuration of an Artificial Extracellular Matrix on the Development of a Functional Dermis," <u>The Role of Extracellular Matrix in Development</u> 351-355 (Alan R. Liss, Inc., NY 1984).	
(P)		CAO, et al., "Bone Reconstruction with Tissue Engineered Vascularized Bone," (Abstract) April 30 - May 3, 1995	

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P		CAO, et al., "The Generation of Neo-Tendon Using Synthetic Polymers seeded with Tenocytes," <u>Transplantation Proceedings</u> , 26(6):3390-3392 (1994).	
		CHAIKIN, "Tissue Engineering: Science Non-Fiction," <u>Medical Industry Executive</u> pp 6-7 (May, 1993).	
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CH		DA SILVA, "An In Vivo Model to Quantify Motor and Sensory Peripheral Nerve Regeneration Using Bioresorbable Nerve Guide Tubes," <u>Brain Research</u> , 342:307-315 (1985).	

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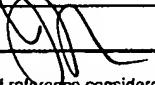
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Filing Date	November 3, 1998		
First Named Inventor	Joseph P. Vacanti		
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P		DAVIS, et al., "Human Amnion Membrane Serves as a Substratum for Growing Axons In Vitro and in Vivo," <u>Science</u> , 236:1106-1109 (May 29, 1987).	
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		FOLKMAN, et al., "Angiogenic Factors," <u>Science</u> 235:442-447 (January 23, 1987).	
P		FONTAINE, et al., "Optimization Studies on Retroviral Mediated Gene Transfer into Rat Hepatocytes: Implications for Gene Therapy," The Society of University Surgeons, Resident's Program, Cincinnati, Ohio (February 15, 1992).	

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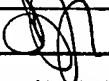
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(D)		FONTAINE, et al., "Transplantation of Genetically Altered Hepatocytes Using Cell-Polymer Constructs," <u>Transplantation Proceedings</u> , 25:1002-1004 (February 1993).	
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(D)		GROLLEMAN, et al., "Studies on a Bioerodible Drug Carrier System Based on Polyphosphazene," <u>Journal of Controlled Release</u> 3:143-154 (1986).	

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GJ		GROTH, et al., "Correction of Hyperbilirubinemia in the Glucoronidyltransferase-Deficient Rat by Intraportal Hepatocyte Transplantation," <u>Transplant Proc.</u> 9:313-316 (1977).
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GJ		INGBER, et al., "Control of Capillary Morphogenesis: A Molecular System of Mechanical Switches," <u>J. Cell Biol.</u> , 107:797a (1988).

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		INGBER, et al., "Mechanochemical Switching Between Growth Factor-Stimulated Angiogenesis In Vitro: Role of Extracellular Matrix," <u>J. Cell. Biol.</u> , 109:317-330 (1989).	
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P		KLEINMAN, et al., "Use of Extracellular Matrix Components and Cell Culture," <u>Analytical Biochemistry</u> 166:1-13 (1987).	

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✓		KLOMPMAKER, et al, "Porous Polymer Implants for Repair of Full-Thickness Defects of Articular Cartilage: An Experimental Study in Rabbit and Dog," <u>Biomaterials</u> 13(9):625-634 (1992).	
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Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	09/185,360 U.S. Patent No. 6,348,069 Issued February 19, 2002
Sheet	16	of	27	Filing Date	November 3, 1998
				First Named Inventor	Joseph P. Vacanti
				Group Art Unit	3738
				Examiner Name	D. Isabella
				Attorney Docket Number	MIT 6917 (CMCC 450) DIV

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(J)		LETOURNEAU, "Possible Roles of Cell-to-Sutstratus Adhesion in Neuronal Morphogenesis," <u>Developmental Biology</u> , 44:77-91 (1975)			
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(R)		MALIZIA, et al., "Migration and Granulomatous Reaction After Periurethral Injection of Polytet (Teflon)," <u>JAMA</u> , 251(24):3277-3281 (June, 1984).			

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(D)		MARCIANO and GASH, "Structural and Functional Relationships of Grafted Vasopressin Neurons," <u>Brain Res.</u> , 370(2):338-342 (April 9, 1986).	
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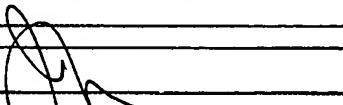


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First Named Inventor	Joseph P. Vacanti				
Group Art Unit	3738				
Examiner Name	D. Isabella				
Sheet	18	of	27	Attorney Docket Number	MIT 6917 (CMCC 450) DIV

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(D)		MOONEY, "Switching from Differentiation to Growth in Hepatocytes: Control by Extracellular Matrix," <u>J. Cell. Phys.</u> (151):497-505 (1992).			
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(D)		PASIK, <u>Annals of the N.Y. Academy of Science</u> , 495:674-675 (1987).	
		PATTERSON, et al., "Adrenal Chromaffin Cell-Derived Cholinergic Neurons for Brain Transplants," <u>Caltech Biology</u> pp 201-202 (1987).	
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Sheet	22	of	27
		Attorney Docket Number	MIT 6917 (CMCC 450) DIV

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(D)		SCHUBERT & BAIRD, "Multiple Influences of a Heparin-Binding Growth Factor for Neuronal Development," <u>The Journal of Cell Biology</u> , 104:635-643 (March 1987).	
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(D)		SLADEK, et al, "Reversal of Parkinsonism by Fetal Nerve Cell Transplants in Primate Brain," <u>Annals of the New York Academy of Sciences</u> , 495:641-657 (1987).	

Examiner's Signature		Date Considered	6/22/05
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Application Number	09/185,360 U.S. Patent No. 6,348,069 Issued February 19, 2002
Filing Date	November 3, 1998		
First Named Inventor	Joseph P. Vacanti		
Group Art Unit	3738		
Examiner Name	D. Isabella		
Sheet	23	of	27
		Attorney Docket Number	MIT 6917 (CMCC 450) DIV

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80		SLADEK, et al., "Survival and Growth of Fetal Catecholamine Neurons Transplanted Into Primate Brain," <u>Brain Research Bulletin</u> , 17:809-818 (1986).	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	09/185,360 U.S. Patent No. 6,348,069 Issued February 19, 2002
Sheet	24	of	27
		Attorney Docket Number	MIT 6917 (CMCC 450) DIV

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<i>AS</i>		TAVASSOLI, et al., "Studies on Regeneration of Heterotopic Splenic Autotransplants," <u>Blood</u> , 41(5):701-709 (May, 1973).
		THOMPSON, "Implantable Bioreactors: Modern Concepts of Gene Therapy," <u>Current Communications In Molecular Biology</u> , Daniel Marshak, et al., editors, pp 143-147 (Cold Spring Harbor Laboratory, 1989).
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		UNOS Update, "National Cooperative Transplantation Study Completed," 7(10) (October/November 1991).
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<i>ch</i>	VACANTI, et al., "Formation of New Cartilage In Vivo by Implantation of Cell-Polymer Constructs Created in Vitro,"	

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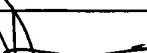
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	09/185,360
Sheet	25	of	27	Filing Date	November 3, 1998
				First Named Inventor	Joseph P. Vacanti
				Group Art Unit	3738
				Examiner Name	
				Attorney Docket Number	MIT 6917 (CMCC 450) DIV

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DJ		VACANTI, et al., "Synthetic Polymers Seeded with Chondrocytes Provide a Template for New Cartilage Formation," <u>Journal of the American Society of Plastic and Reconstructive Surgeons, Inc.</u> , 88(5):753-759 (November 1991).			
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First Named Inventor	Joseph P. Vacanti				
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Examiner Name	D. Isabella				
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(D)		WALKER, et al., "Injectable Bioglass as a Potential Substitute for Injectable Polytetrafluoroethylene," <u>The Journal of Urology</u> 148(1):645-647	
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(D)		YANNAS, et al., "Suppression of In Vivo Degradability and of Immunogenicity of Collagen by Reaction with Glycosaminoglycans," <u>Polymer. Prepar. Am. Chem. Soc. Div. Polym. Chem.</u> , 16(2): 209-214 (1975).	

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Filing Date	November 3, 1998		
First Named Inventor	Joseph P. Vacanti		
Group Art Unit	3738		
Examiner Name	D. Isabella		
Sheet 27 of 27	Attorney Docket Number	MIT 6917 (CMCC 450) DIV	

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(J)		YANNAS, "What Criteria Should be Used for Designing Artificial Skin Replacement and How Well do the Current Grafting Materials Meet These Criteria?" <u>J. of Trauma</u> , 24(9):S29-S39 (1984).	
		Report of the International Reflux Study Committee, "Medical Versus Surgical Treatment of Primary Vesicoureteral Reflux: A Prospective International Reflux Study in Children," <u>The Journal of Urology</u> 125:277-283 (March, 1981).	
(J)		ZUND, et al., "A New Approach for a Bioprosthetic-Heart Valve," <u>The European Association for Cardio-Thoracic Surgery</u> , (January 31, 1995).	

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